

(19) 世界知的所有権機関
国際事務局



(43) 国際公開日
2004 年 1 月 15 日 (15.01.2004)

PCT

(10) 国際公開番号
WO 2004/004566 A1

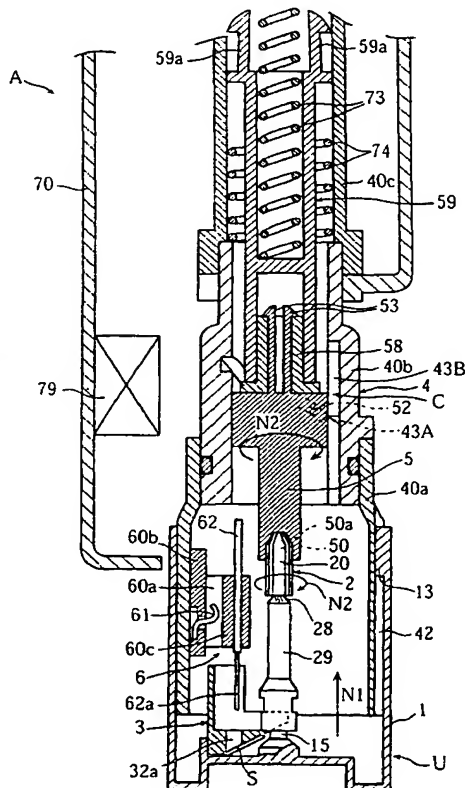
- (51) 国際特許分類⁷: A61B 5/15
- (21) 国際出願番号: PCT/JP2003/008384
- (22) 国際出願日: 2003 年 7 月 1 日 (01.07.2003)
- (25) 国際出願の言語: 日本語
- (26) 国際公開の言語: 日本語
- (30) 優先権データ:
特願2002-193846 2002 年 7 月 2 日 (02.07.2002) JP
- (71) 出願人 (米国を除く全ての指定国について): アーク
レイ株式会社 (ARKRAY, INC.) [JP/JP]; 〒601-8045 京
都府 京都市 南区東九条西明田町 5 7 Kyoto (JP).
- (72) 発明者; および
- (75) 発明者/出願人 (米国についてのみ): 坂田 哲也

- (SAKATA, Tetsuya) [JP/JP]; 〒601-8045 京都府 京都市 南区東九条西明田町 5 7 アークレイ株式会社内 Kyoto (JP). 松本 大輔 (MATSUMOTO, Daisuke) [JP/JP]; 〒601-8045 京都府 京都市 南区東九条西明田町 5 7 アークレイ株式会社内 Kyoto (JP).
- (74) 代理人: 吉田 稔, 外 (YOSHIDA, Minoru et al.); 〒543-0014 大阪府 大阪市 天王寺区玉造元町 2 番 3 2-1 3 0 1 Osaka (JP).
- (81) 指定国 (国内): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.

/ 続葉有 /

(54) Title: METHOD OF SETTING PIERCING MEMBER IN PIERCING DEVICE, PIERCING DEVICE, AND CAM MECHANISM

(54) 発明の名称: 穿刺装置への穿刺用部材のセッティング方法、穿刺装置およびカム機構



(57) Abstract: A method of setting a piercing member in a piercing device, comprising the step of rotating a piercing member (2) joined to a cap (29) covering a needle (21) relative to the cap (29) by utilizing a rotating means (C) when or after the piercing member (2) is held on the holder (5) of a piercing device (A), whereby the needle (21) can be easily exposed by rupturing a boundary portion (28) between the cap (29) and the piercing member (2).

(57) 要約: 針 (21) を覆うキャップ (29) が繋がっている穿刺用部材 (2) を、穿刺装置 (A) のホルダ (5) に保持させるときおよび保持させた後のいずれかの時期において、回転手段 (C) を利用して穿刺用部材 (2) をキャップ (29) に相対させて回転させる。このことにより、キャップ (29) と穿刺用部材 (2) との境界部分 (28) を破断させて、針 (21) を簡単に露出させることができる。

WO 2004/004566 A1

INTERNATIONAL SEARCH REPORT

International application No.

PCT/JP03/08384

A. CLASSIFICATION OF SUBJECT MATTER
Int.Cl⁷ A61B5/15

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)
Int.Cl⁷ A61B5/15

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched
Jitsuyo Shinan Koho 1922-1996 Toroku Jitsuyo Shinan Koho 1994-2003
Kokai Jitsuyo Shinan Koho 1971-2003 Jitsuyo Shinan Toroku Koho 1996-2003

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)

C. DOCUMENTS CONSIDERED TO BE RELEVANT

| Category* | Citation of document, with indication, where appropriate, of the relevant passages | Relevant to claim No. |
|-----------|--|-----------------------|
| | CD-ROM of the specification and drawings annexed to the request of Japanese Utility Model Application No. 84501/1992 (Laid-open No. 38909/1994) (Meitech Co., Ltd.), 24 May, 1994 (24.05.94), | |
| X | Full text; all drawings (Family: none) | 1, 2, 7 |
| A | Full text; all drawings (Family: none) | 3-6, 8-15 |
| | JP 8-84721 A (Meitech Co., Ltd.), 02 April, 1996 (02.04.96), | |
| X | Par. Nos. [0068] to [0070]; Figs. 9 to 10 (Family: none) | 1, 2, 7 |
| A | Par. Nos. [0068] to [0070]; Figs. 9 to 10 (Family: none) | 3-6, 8-15 |

☒ Further documents are listed in the continuation of Box C. ☐ See patent family annex.

| | |
|---|--|
| * Special categories of cited documents: | "T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention |
| "A" document defining the general state of the art which is not considered to be of particular relevance | "X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone |
| "E" earlier document but published on or after the international filing date | "Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art |
| "L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified) | "&" document member of the same patent family |
| "O" document referring to an oral disclosure, use, exhibition or other means | |
| "P" document published prior to the international filing date but later than the priority date claimed | |

Date of the actual completion of the international search
22 July, 2003 (22.07.03)

Date of mailing of the international search report
05 August, 2003 (05.08.03)

Name and mailing address of the ISA/
Japanese Patent Office

Authorized officer

Facsimile No.

Telephone No.

INTERNATIONAL SEARCH REPORT

International application No.
PCT/JP03/08384

C (Continuation). DOCUMENTS CONSIDERED TO BE RELEVANT

| Category* | Citation of document, with indication, where appropriate, of the relevant passages | Relevant to claim No. |
|-----------|--|-----------------------|
| A | JP 6-133955 A (Apls Co., Ltd.), 17 May, 1994 (17.05.94), Full text; all drawings & DE 69316150 C & EP 595148 A & US 5314442 A | 1-15 |
| A | JP 5-285127 A (Apls Co., Ltd.), 02 November, 1993 (02.11.93), Full text; all drawings (Family: none) | 1-15 |
| A | JP 2000-511068 A (Mercury Diagnostics, Inc.), 29 August, 2000 (29.08.00), Full text; all drawings & AU 3070397 A & AU 3131097 A & AU 3206797 A & AU 3207197 A & AU 3284797 A & AU 3368297 A & DE 19781044 T & DE 19781046 T & DE 19781097 T & DE 19781098 T & DE 29723357 U & DE 29723371 U & DK 64698 A & EP 904022 A & EP 955909 A & EP 955914 A & GB 2322561 A & GB 2322562 A & GB 2325167 A & IL 124425 A & IL 124426 A & IL 124510 A & JP 2002-502271 A & JP 2002-503118 A & JP 2002-503119 A & US 5857983 A & US 5879311 A & US 5944876 A & US 5951492 A & US 5951493 A & US 6015392 A & US 6048352 A & US 6056701 A & US 6071250 A & US 6099484 A & US 6183489 B & US 6319210 B & US 633287 B & US 2002/002344 A & US 2002/010406 A & US 6352514 B & WO 97/42882 A & WO 97/42883 A & WO 97/42885 A & WO 97/42888 A & WO 97/43962 A | 1-13 |
| A | WO 01/041643 A (Arkray, Inc.), 14 June, 2001 (14.06.01), Full text; all drawings & AU 1889001 A & EP 1238632 A | 5,13 |
| A | JP 2000-254111 A (Terumo Corp.), 19 September, 2000 (19.09.00), Full text; all drawings & JP 2000-199761 A & JP 2001-021556 A & JP 2001-074731 A & EP 1139873 A & WO 00/40150 A & US 6315738 B & CN 1337862 A | 5,13 |

INTERNATIONAL SEARCH REPORT

International application No.

PCT/JP03/08384

C (Continuation). DOCUMENTS CONSIDERED TO BE RELEVANT

| Category* | Citation of document, with indication, where appropriate, of the relevant passages | Relevant to claim No. |
|-----------|--|-----------------------|
| A | JP 2000-217804 A (Kyoto Daiichi Kagaku Co., Ltd.), 08 August, 2000 (08.08.00), Full text; all drawings (Family: none) | 5, 13 |